NATIONAL AGRICULTURAL STATISTICS SERVICE

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KENTUCKY WEEKLY CROP & WEATHER REPORT

In Cooperation with:
Univ. of Ky - Agr'l Weather Center
U.S. Dept. of Commerce - NOAA
Kentucky Department of Agriculture
Cooperative Extension Service

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AGRICULTURAL NEWS: Rain continued to be the missing ingredient needed statewide to maintain crop development and to improve crop conditions. Crops are starting to lose yield potential due to the lack of soil moisture. The State received scattered rains in the west, which helped the crops in some areas, but the State still needs a slow soaking rain. **Topsoil moisture** as of Friday, July 8, was rated 42 percent very short, 45 percent short, 12 percent adequate, and 1 percent surplus. **Subsoil moisture** was rated 31 percent very short, 50 percent short, and 19 adequate. Fieldwork for the week ending July 8, averaged 6.1 days out of a possible 7 days in part due to the lack of rain. The majority of fieldwork included setting up irrigation for tobacco, spraying soybeans, planting double crop beans, baling and hauling hay, and clipping pastures where needed.

TOBACCO: Most of the tobacco crop throughout the State has limited disease presence. The most commonly reported problem affecting the tobacco crop was black shank, but one respondent reported blue mold in the central part of the State. Farmers were spot-topping the tobacco that started blooming early. The tobacco condition was rated 4 percent very poor, 15 percent poor, 36 percent fair, 39 percent good, and 6 percent excellent. As of Friday, July 8, 50 percent of the plants were under 24 inches in height, 40 percent 24-36 inches in height, and 10 percent were over 36 inches.

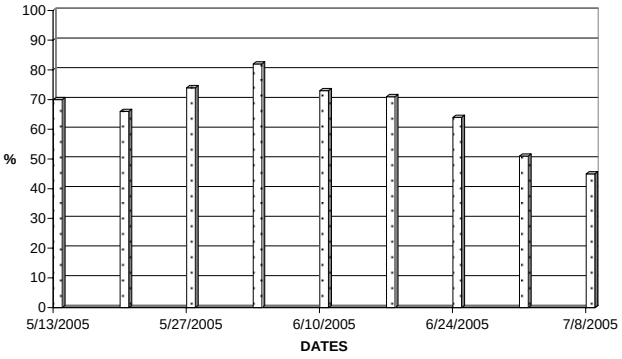
CORN: The corn crop in many areas was twisting and would benefit the most from rain. The condition of the corn was rated 4 percent very poor, 13 percent poor, 32 percent fair, 39 percent good, and 12 percent excellent. Sixty-six percent of the corn has silked or was silking as of Sunday, July 10, well behind last year's 78 percent, but equals the five year average.

SOYBEANS: As of Sunday, July 10, 42 percent of soybeans were blooming, well ahead of last year's 24 percent, and even better than the five year average of 20 percent. The soybean condition was rated 2 percent very poor, 10 percent poor, 33 percent fair, 43 percent good, and 12 percent excellent. The soybean crop has been least affected by the dry weather, but recently planted double-crop soybeans will need rain soon for the vigor needed for sustained growth.

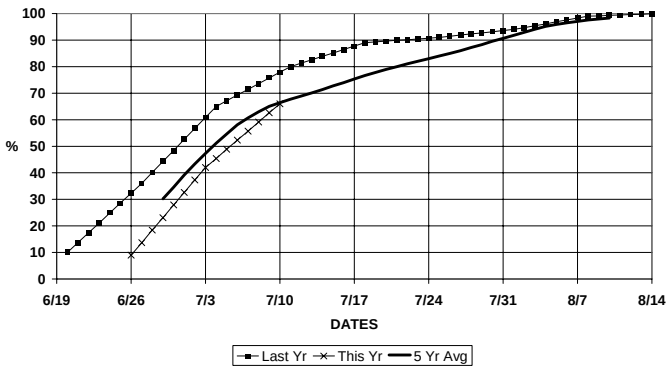
SMALL GRAINS: Wheat harvested was 98 percent completed as of Sunday, July 10, just ahead of last year's 97 percent, and equals the five year average. Farmers had good harvest conditions for wheat, if anything positive can be said for the dry spell.

OTHER CROPS: The clear weather allowed farmers plenty of opportunity to bale and haul hay. The condition of the hay crop will probably be affected for the rest of the growing season due to the dry weather. Hay condition as of Friday, July 8 was rated 8 percent very poor, 27 percent poor, 42 percent fair, 21 percent good, and 2 percent excellent. Pasture conditions have deteriorated, and the lack of precipitation to replenish stock ponds is starting to concern the State's livestock producers. Pasture conditions as of Friday, July 8 was rated 15 percent very poor, 32 percent poor, 38 percent fair, 14 percent good, and 1 percent excellent.

BURLEY TOBACCO CONDITION
% Good to Excellent



CORN PERCENT SILKED



KENTUCKY CROP PROGRESS

WEEK ENDING JULY 10, 2005
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week KY	Previous Week U.S.
		Percentage			
Corn Silking	66	78	66	42	11
Soybeans Blooming	42	24	20	35	21
Wheat Harvested	98	97	98	96	62

(NA)Data Not Available.

SOIL MOISTURE

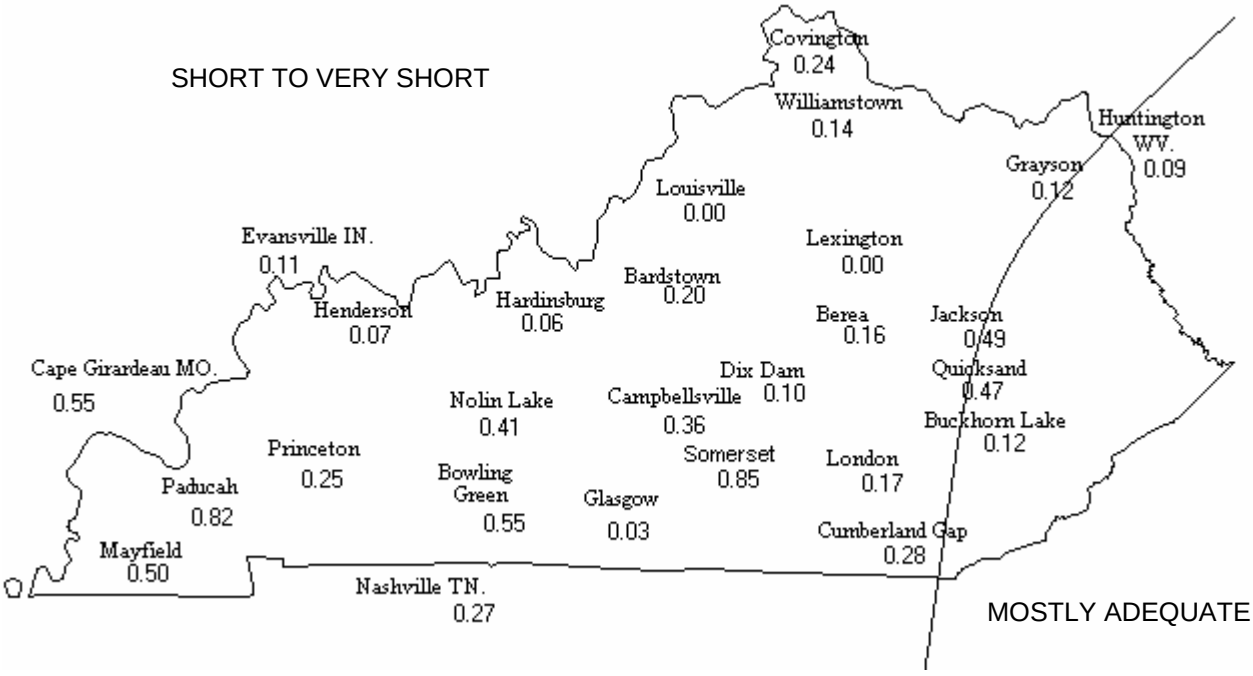
WEEK ENDING JULY 8, 2005
WITH COMPARISONS

	This Week	Previous Week
	Percentage	
TOPSOIL		
Very Short	42	38
Short	45	46
Adequate	12	16
Surplus	1	0
SUBSOIL		
Very Short	31	29
Short	50	47
Adequate	19	23
Surplus	0	1

KENTUCKY CROP CONDITIONS (Percent)

	WEEK ENDING JULY 8, 2005					WEEK ENDING JULY 1, 2005				
CROP	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT
Corn	4	13	32	39	12	2	7	29	41	21
Soybeans	2	10	33	43	12	1	5	29	44	21
Pasture	15	32	38	14	1	10	22	40	25	3
Tobacco	4	15	36	39	6	3	11	35	41	10
Hay Crops	8	27	42	21	2	NA	NA	NA	NA	NA

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 10, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 8, 2005



KENTUCKY WEATHER SUMMARY, JULY 4 – 10, 2005:

Near Normal Temperatures and Below Normal Precipitation:

For the fourth time in the past six weeks, temperatures have averaged within one degree of normal. During the week, highs were generally in the upper 80's and lows were in the 60's. Again, it was a dry week for most of the State. Western areas got some much needed rainfall on Monday night as numerous showers associated with a cold front moved across the area. The rain fizzled out as the front reached central portions of the State. On Thursday, eastern Kentucky received rain from the remnants of Tropical Storm Cindy. Central parts of the State were left dry. Statewide precipitation has averaged below normal for 4 weeks in a row, leaving the Bluegrass and Western climate divisions in moderate drought, and the Central division in mild drought.

Temperatures for the period averaged 77 degrees across the State which was 1 degree above normal. High temperatures averaged from 90 in the West to 86 in the East. Departure from normal high temperatures ranged from 1 degree above normal in the West to 1 degree above normal in the East. Low temperatures averaged from 66 degrees in the West to 66 degrees in the East. Departure from normal low temperature ranged from 0 degrees from normal in the West to 1 degree above normal in the East. The extreme high temperature was 94 at Glasgow and Princeton. The extreme low temperature was 59 degrees in London.

Rainfall for the period totaled 0.26 inches statewide which was 0.80 inches below normal. Precipitation totals by climate division, West 0.38 inches, Central 0.21 inches, Bluegrass 0.11 inches and East 0.32 inches, which was 0.54, 0.90, 0.95 and 0.81 inches respectively below normal. By station, precipitation totals ranged from a low of 0.00 inches at Louisville, Lexington, and Spindletop to a high of 0.85 inches at Somerset.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL

FOR WEEK ENDING SUNDAY, JULY 10, 7:00 P.M.

	Rainfall			Deviation From		Air Temperature				Growing Degree Days		
Weather Station	Last Week	Since April 1	Last Four Wks	Norm Since Apr. 1	Norm Last 4 Wks	High	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr. 1
	(Inches)					(Degrees Fahrenheit)						
Bardstown	0.20	11.81	1.11	-1.81	-2.70	92	64	77.3	+1	180	1690	+25
Berea	0.16	10.10	1.68	-4.35	-2.12	92	61	76.6	+1	175	1767	+61
Bowling Green	0.55	10.66	1.17	-4.30	-2.86	92	65	78.6	+3	185	1763	+27
Bristol	2.33	14.56	4.99	+2.43	+1.47	90	61	73.3	-2	157	1543	-21
Buckhorn Lake	0.12	8.42	1.42	-5.15	-2.63	91	64	77.4	+2	181	1694	+200
Cape Girardeau	0.55	11.97	1.91	-2.26	-1.31	94	63	79.1	+1	185	1803	-14
Campbellsville	0.36	12.09	1.13	-3.73	-3.10	92	64	77.1	+1	181	1761	+85
Covington	0.24	8.65	2.95	-4.59	-0.72	89	63	76.4	+1	178	1569	+55
Cumberland Gap	0.28	7.36	1.56	-7.49	-2.70	91	64	77.4	+2	181	1693	+159
Dix Dam	0.10	10.08	1.35	-4.15	-2.45	92	62	77.3	+2	181	1698	+33
Evansville	0.11	9.40	0.11	-4.16	-3.29	93	62	77.7	+0	178	1714	-2
Glasgow	0.03	12.80	0.62	-3.12	-3.85	94	64	78.8	+3	184	1868	+222
Grayson	0.12	10.11	1.71	-3.19	-2.16	92	62	76.6	+1	175	1687	+254
Hardinsburg	0.06	9.70	0.90	-4.81	-2.91	92	63	77.8	+2	179	1731	-5
Henderson	0.07	9.52	0.35	-4.40	-3.24	92	65	78.3	+1	183	1754	+8
Huntington	0.09	9.71	1.60	-3.44	-2.21	92	61	76.6	+2	175	1695	+151
Jackson	0.49	14.44	2.35	+0.35	-1.64	88	60	75.0	-0	171	1715	+221
Lexington	0.00	8.56	1.68	-5.06	-2.13	93	63	77.8	+3	183	1633	+89
London	0.17	11.22	2.18	-2.12	-1.53	88	59	74.7	-0	170	1620	+86
Louisville	0.00	9.94	0.30	-3.82	-3.23	93	64	77.9	+2	182	1686	-30
Mayfield	0.50	8.02	0.50	-6.86	-2.97	91	64	77.4	-0	181	1712	-85
Nashville	0.27	10.93	0.37	-3.17	-3.05	96	69	81.4	+6	199	1887	+40
Nolin Lake	0.41	11.31	1.28	-4.25	-2.70	92	65	78.3	+2	181	1763	+168
Paducah	0.82	9.62	0.86	-5.73	-2.92	93	63	78.4	+1	182	1827	+20
Princeton	0.25	9.56	0.45	-5.43	-3.24	94	63	78.6	+1	181	1843	+67
Quicksand	0.47	11.54	1.05	-2.55	-2.94	91	64	77.1	+2	179	1697	+203
Somerset	0.85	12.05	1.76	-3.19	-2.36	90	63	75.1	-0	171	1662	+37
Spindletop	0.00	6.50	0.24	-7.12	-3.57	93	62	76.9	+2	178	1593	+49
Williamstown	0.14	8.65	2.40	-5.14	-1.32	91	63	77.0	+2	180	1596	+52

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (859)257-3000 ext 245. E-mail: priddy@uky.edu Additional Ky weather data available on Internet at: http://wwwagwx.ca.uky.edu/

APPARENT TEMPERATURE CHART

Rel Humid %	Air Temperature (Degrees Fahrenheit)					
	85	90	95	100	105	110
20	82	87	93	99	105	112
30	84	90	96	104	113	123
40	86	93	101	110	123	137
50	88	96	107	120	135	150
60	90	100	114	132	149	
70	93	106	124	144		
80	97	113	130			
90	102	122				
100	108					

CATEGORY	APPARENT TEMP	HEAT SYMPTOMS
I	> 130 degrees	Heatstroke imminent
II	105 to 130 degrees	Sunstroke likely, heatstroke possible
III	90 to 105 degrees	Sunstroke possible
IV	80 to 90 degrees	Fatigue possible

HOW TO USE THE "APPARENT TEMPERATURE" CHART

If the outside air temperature was currently 100 degrees (F) and relative humidity was currently 50%, the apparent temperature would be 120 degrees (see chart). This means the outside temperature would feel like it was 120 degrees. Under these conditions sunstroke would be likely and heatstroke possible if exposure is prolonged. Keep in mind that the actual degree of heat stress experienced will vary with individual age, health, and body characteristics.

This release and others can be viewed on the Internet at **http://www.nass.usda.gov/ky/** For a free E-Mail subscription of the Kentucky Weekly Crop & Weather report, on the Internet go to **http://www.nass.usda.gov/sub-form.htm** and follow the instructions.